

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P944137

Luminaire Tested: **GALN-SB8D-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59667 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

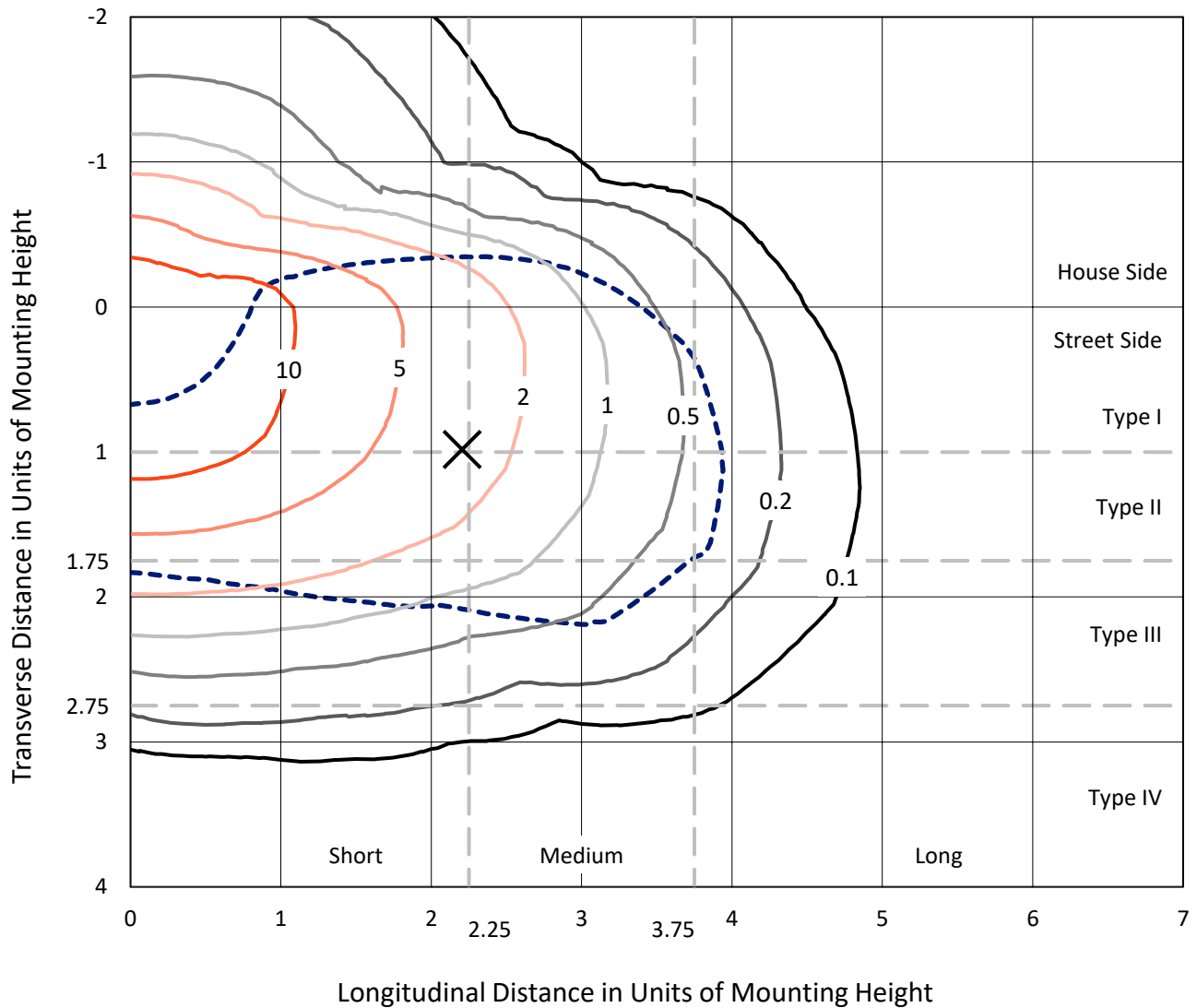
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

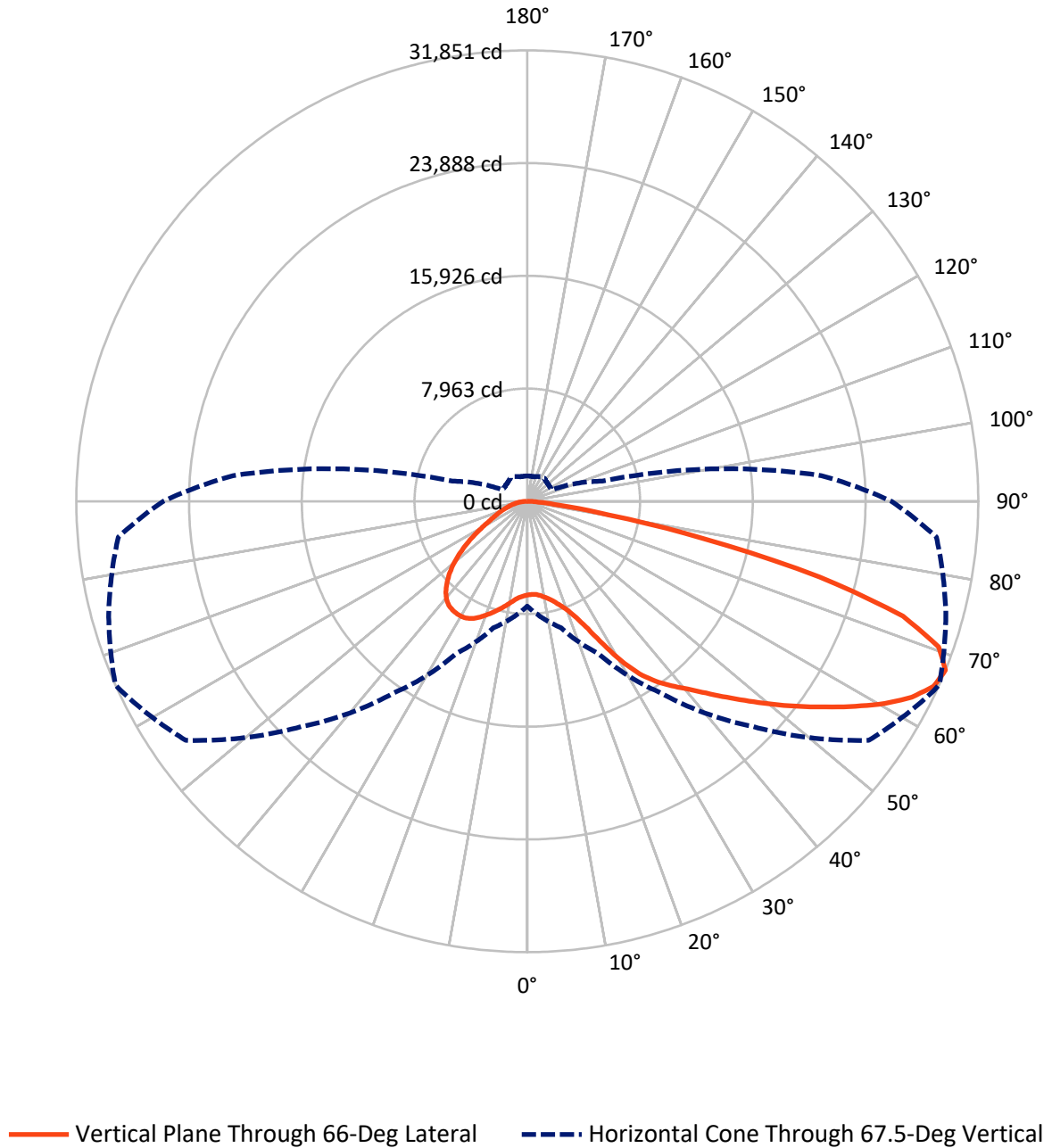
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14836.0	0.0	14836.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	44831.0	0.0	44831.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	59667.0	0.0	59667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.1	1.1
10°-20°	2167.8	3.6
20°-30°	4178.3	7.0
30°-40°	7326.1	12.3
40°-50°	10891.5	18.3
50°-60°	13806.0	23.1
60°-70°	13508.8	22.6
70°-80°	6443.8	10.8
80°-90°	688.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	59667.0	100.0
0°-180°	59667.0	100.0

Coefficient of Utilization



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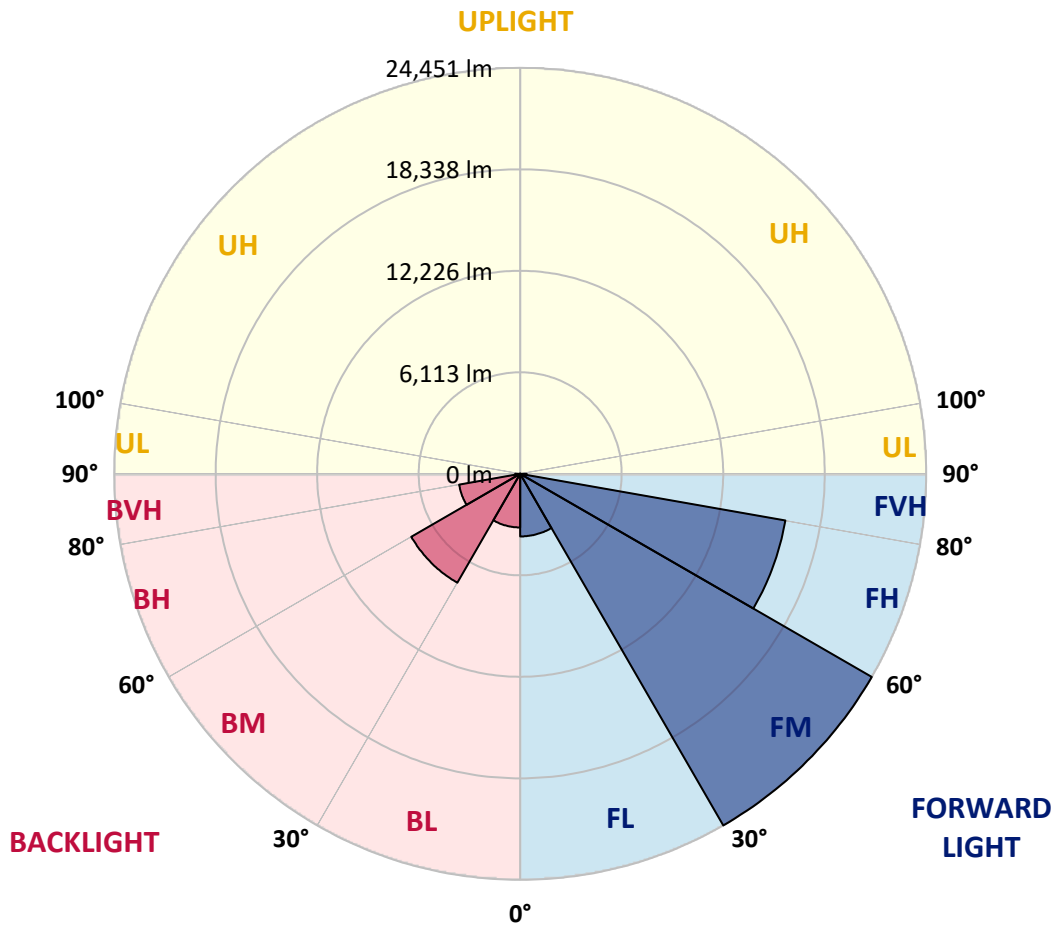
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3770.4	6.3			
FM (30°-60°)	24451.0	41.0			
FH (60°-80°)	16219.1	27.2			G5
FVH (80°-90°)	390.5	0.7			G3/500
BL (0°-30°)	3231.8	5.4	B4/5000		
BM (30°-60°)	7572.5	12.7	B4/8500		
BH (60°-80°)	3733.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	298.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9
2.5°	6548.9	6586.5	6577.1	6561.4	6558.3	6564.6	6574.0	6583.4	6580.2	6595.9
5°	6530.1	6567.7	6564.6	6564.6	6577.1	6602.2	6617.9	6633.5	6617.9	6636.7
7.5°	6542.6	6570.8	6583.4	6595.9	6627.3	6674.3	6711.9	6746.4	6727.6	6749.5
10°	6702.5	6724.4	6737.0	6737.0	6758.9	6812.2	6849.8	6912.5	6896.9	6931.4
12.5°	6994.1	7016.0	7016.0	7003.5	7019.1	7053.6	7066.2	7135.1	7106.9	7163.3
15°	7351.4	7395.3	7360.8	7338.9	7345.2	7379.6	7376.5	7429.8	7401.6	7448.6
17.5°	7746.4	7802.9	7746.4	7743.3	7730.8	7768.4	7771.5	7818.5	7768.4	7802.9
20°	8213.5	8291.9	8244.9	8260.6	8232.4	8248.0	8263.7	8332.7	8254.3	8279.4
22.5°	8871.9	8965.9	8915.8	8975.3	8956.5	8944.0	8940.8	9063.1	8940.8	8950.3
25°	9831.2	9944.0	9856.3	9937.8	9937.8	9978.5	10025.5	10182.3	9978.5	9919.0
27.5°	11248.2	11361.0	11188.6	11238.8	11223.1	11323.4	11273.2	11662.0	11442.5	11345.3
30°	12953.6	13154.2	12828.2	12815.6	12800.0	12959.8	13031.9	13289.0	13066.4	12969.2
32.5°	14796.9	15007.0	14618.2	14505.4	14445.8	14543.0	14483.4	14690.3	14536.7	14386.2
35°	16746.9	16953.8	16583.8	16364.4	16126.1	15922.4	15709.2	15762.5	15618.3	15389.4
37.5°	18590.2	18969.5	18577.7	18342.5	17903.6	17505.5	16909.9	16662.2	16527.4	16317.4
40°	20468.0	20684.3	20386.5	20185.9	19709.4	19085.5	18132.5	17609.0	17427.1	17223.4
42.5°	21850.5	22057.4	21897.6	21759.6	21386.6	20662.4	19430.4	18775.2	18511.8	18283.0
45°	22947.8	23101.4	23001.1	23051.2	22891.3	22189.1	20775.2	20026.0	19753.3	19474.2
47.5°	23389.8	23552.8	23712.7	24010.5	24283.2	23766.0	22220.5	21380.3	21091.9	20806.6
50°	23339.6	23505.8	23969.8	24603.0	25449.4	25277.0	23744.0	22822.4	22555.9	22229.9
52.5°	22938.4	23126.5	23722.1	24775.4	26123.5	26408.7	25295.8	24311.5	24060.7	23671.9
55°	21885.0	21997.9	22891.3	24383.6	26283.3	27198.7	26816.3	25897.7	25646.9	25104.6
57.5°	19931.9	20095.0	21396.0	23327.1	25882.1	27734.8	28151.8	27565.5	27324.1	26543.5
60°	17383.2	17643.4	19132.5	21552.7	24860.1	27731.7	29365.0	29205.1	29004.5	27960.5
62.5°	14499.1	14800.1	16232.7	19044.8	23073.2	26944.8	30123.6	30578.2	30474.8	29267.8
65°	11135.3	11342.2	12768.6	15800.1	20292.5	25255.1	30211.4	31515.6	31534.4	30261.6
67.5°	7414.1	8009.8	9248.1	11856.3	16568.2	22493.2	29440.2	31669.2	31851.0	30603.3
70°	3617.7	4401.5	5614.7	7705.7	11856.3	18257.9	27424.5	30408.9	30813.3	29606.4
72.5°	1501.6	1755.6	2417.0	3802.7	6806.0	12320.3	23374.1	26991.8	27741.1	26233.2
75°	1012.6	1097.2	1382.5	1949.9	3100.5	6075.5	16856.6	20126.3	21333.3	19812.8
77.5°	780.6	833.9	1006.3	1363.7	1843.3	2297.9	9022.4	12129.1	12752.9	11806.2
80°	614.4	655.2	752.4	993.8	1307.3	1228.9	3075.4	5495.6	5856.1	4912.5
82.5°	532.9	548.6	539.2	674.0	868.4	717.9	1009.5	2028.3	2238.3	1623.9
85°	385.6	429.5	448.3	416.9	460.8	363.7	413.8	717.9	790.0	705.4
87.5°	156.7	232.0	285.3	269.6	169.3	103.5	128.5	210.0	241.4	263.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6617.9	0°	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9
6621.0	2.5°	6624.1	6646.1	6661.7	6680.6	6693.1	6711.9	6749.5	6771.5	6774.6	6790.3
6671.2	5°	6683.7	6715.0	6749.5	6799.7	6856.1	6903.1	6975.2	7025.4	7044.2	7059.9
6793.4	7.5°	6812.2	6856.1	6918.8	7006.6	7088.1	7150.8	7238.6	7298.1	7357.7	7379.6
6987.8	10°	7003.5	7066.2	7157.1	7276.2	7364.0	7445.5	7536.4	7586.6	7646.1	7671.2
7219.8	12.5°	7241.7	7307.5	7426.7	7592.8	7674.3	7730.8	7762.1	7749.6	7762.1	7784.1
7498.8	15°	7514.5	7586.6	7721.4	7900.0	7956.5	7906.3	7837.4	7774.7	7765.2	7771.5
7837.4	17.5°	7837.4	7890.6	8047.4	8197.9	8157.1	7950.2	7799.7	7699.4	7649.3	7633.6
8270.0	20°	8288.8	8288.8	8417.3	8511.4	8238.6	7887.5	7652.4	7489.4	7385.9	7342.0
8859.3	22.5°	8837.4	8787.2	8868.7	8802.9	8222.9	7712.0	7385.9	7103.8	6947.0	6884.3
9683.8	25°	9533.4	9473.8	9451.8	9044.3	8110.1	7432.9	6903.1	6561.4	6423.5	6389.0
10872.0	27.5°	10583.6	10433.1	10147.8	9176.0	7903.2	6994.1	6338.8	6022.2	5943.8	5947.0
12398.7	30°	11981.7	11680.8	10981.7	9197.9	7564.6	6373.3	5762.0	5536.3	5498.7	5514.4
13680.9	32.5°	13276.5	12991.2	11834.4	9097.6	7044.2	5765.2	5244.8	5094.3	5037.8	5056.7
14659.0	35°	14292.2	14213.8	12624.4	8956.5	6404.7	5194.6	4780.8	4652.3	4542.5	4517.4
15580.7	37.5°	15251.5	15220.1	13216.9	8759.0	5771.4	4790.2	4407.7	4238.4	4078.6	3990.8
16599.5	40°	16304.8	16273.5	13605.6	8454.9	5210.3	4439.1	4072.3	3849.7	3652.2	3492.3
17753.2	42.5°	17489.8	17304.9	13790.6	8019.2	4733.8	4141.3	3799.5	3498.6	3238.4	3091.1
19057.3	45°	18784.6	18367.6	13787.5	7464.3	4332.5	3868.5	3508.0	3081.6	2840.3	2702.3
20395.9	47.5°	20157.7	19383.3	13618.2	6849.8	3943.8	3567.6	3056.6	2730.5	2570.7	2486.0
21850.5	50°	21574.7	20333.2	13329.8	6144.5	3545.6	3225.9	2774.4	2551.8	2429.6	2351.2
23292.6	52.5°	22907.0	21195.3	12981.8	5345.1	3141.2	2893.5	2649.0	2476.6	2348.1	2260.3
24690.8	55°	24145.3	21938.3	12489.6	4526.9	2812.0	2671.0	2589.5	2445.3	2297.9	2194.5
26110.9	57.5°	25245.7	22421.1	11640.0	3758.8	2576.9	2517.4	2526.8	2392.0	2222.7	2134.9
27509.1	60°	26161.1	22775.3	10382.9	3047.2	2385.7	2366.9	2429.6	2291.6	2094.1	1993.8
28691.0	62.5°	26709.7	22769.1	8840.5	2495.4	2222.7	2228.9	2301.0	2166.2	1965.6	1871.6
29308.6	65°	26662.7	22211.1	7147.7	2134.9	2065.9	2072.2	2166.2	2028.3	1859.0	1802.6
28998.2	67.5°	25719.0	20850.5	5483.0	1899.8	1893.5	1921.7	2031.4	1934.3	1793.2	1786.9
27148.6	70°	23164.1	18025.9	3950.0	1711.7	1714.8	1755.6	1899.8	1874.7	1758.7	1771.2
22825.5	72.5°	18574.5	13743.6	2652.2	1514.2	1517.3	1583.1	1774.4	1827.7	1724.2	1890.4
16195.1	75°	12370.5	8570.9	1705.4	1304.1	1307.3	1391.9	1664.7	1736.8	1630.2	1884.1
8426.7	77.5°	5943.8	3852.8	1235.2	1097.2	1097.2	1175.6	1438.9	1554.9	1388.8	1464.0
2708.6	80°	2053.4	1448.3	971.8	884.1	865.2	918.5	1213.2	1348.0	1197.5	1103.5
884.1	82.5°	808.8	752.4	780.6	686.6	623.9	658.3	943.6	1112.9	880.9	796.3
498.5	85°	464.0	489.1	551.7	454.6	360.5	404.4	692.8	799.4	664.6	586.2
163.0	87.5°	125.4	172.4	253.9	235.1	163.0	172.4	329.2	442.0	382.5	294.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
6617.9
6787.1
7056.8
7382.8
7683.7
7790.3
7793.5
7655.5
7332.6
6874.9
6395.3
5956.4
5567.7
5081.7
4536.3
3993.9
3508.0
3100.5
2696.0
2467.2
2323.0
2222.7
2153.7
2078.5
1949.9
1843.3
1799.5
1796.3
1768.1
1915.4
1899.8
1341.8
1034.5
793.1
598.8
304.1
0.0

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